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Daffodil International University
Department of Agricultural Science
Faculty of Health & Life Sciences
Mid-term Examination, Fall 2025

Course Code: **0815-1105** Course Title: Biochemistry-I (General Biochemistry)
Section: A, B Level-Term: L1T2 Teacher's Initial: DFB, DRH
Full Marks: 25 Time: 1 Hour 30 Minutes

"Split answering is strictly prohibited"

Q1.	Define a cell. Draw and label a neat diagram of a typical plant cell.	(PLO1, CLO1, C1, C2)	1+3
Q2.	Explain, with suitable examples, why humans cannot digest cellulose whereas some animals can.	(PLO1, CLO5, C2)	3
Q3.	Discuss the applications of carbohydrates in biological and industrial systems.	(PLO1, CLO5, C2)	3
Q4.	Define nucleic acids. Differentiate between DNA and RNA based on their structure and function.	(PLO1, CLO2, CLO5, C1, C4)	1 + 3
Q5.	Describe plant proteins. Explain the importance of proteins, amino acids, and enzymes in biological systems.	(PLO1, CLO5, C1, C2)	2 + 3
Q6.	Define carbohydrates with their structural details. Classify carbohydrates based on their structure and provide definitions, chemical formulas, and examples for each class.	(PLO1, CLO2, C1, C2)	1 + 5